

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A download system comprising a server to manage data, and a communication terminal to download the data from the server,

the communication terminal comprising:

reservation candidate acquiring means for transmitting, to the server, a transmission request for transmission of reservation candidate information containing time information indicating at least a start time corresponding to each of a plurality of candidate time zones, all of which are available for allocation of ~~to which~~ a reservation for download of the data ~~can be allocated~~, and for acquiring the reservation candidate information transmitted in response to the request by the server;

reservation selecting means for transmitting, to the server, reservation choice information containing, as reservation time information, the time information selected, based on the reservation candidate information acquired by the reservation candidate acquiring means, and for storing a start time corresponding with a selected one of the plurality of time zones, indicated by the reservation time information, as an initiation time of the download;

data request transmitting means for transmitting a transmission request for transmission of the data to the server, at the initiation time stored by the reservation selecting means; and

data receiving means for receiving the data transmitted by the server in accordance with the transmission request for transmission of the data transmitted by the data request transmitting means; and

the server comprising:

data storing means for storing the data;

reservation information storing means for storing a reservation table in which the reservation for the download is to be allocated to reservation frames within a maximum number at each time to permit simultaneous execution of the download, set based on a load state at each time preliminarily measured;

reservation candidate generating means for, in response to the transmission request for the transmission of the reservation candidate information transmitted by the communication terminal, determining the plurality of time zones as candidates available for the download of the data, based on the reservation table stored in the reservation information storing means, for generating the reservation candidate information containing the time information about each of the plurality of time zones, and for transmitting the reservation candidate information to the communication terminal;

reservation registering means for receiving the reservation choice information transmitted by the communication terminal, and for registering in the reservation table the reservation for the download at one of the time zones corresponding to the reservation time information included in the reservation choice information; and

data transmitting means for transmitting to the communication terminal the data stored in the data storing means, in response to the transmission request for transmission of the data transmitted by the communication terminal.

Claim 2 (Currently Amended): The download system according to Claim 1, wherein, in generating the reservation candidate information, the reservation candidate generating ~~selecting~~ means of the server temporarily allocates in the reservation table, reservations for the download corresponding to the time information included in the reservation candidate information, together with information to identify the communication terminal having

transmitted the transmission request for transmission of the reservation candidate information, and

wherein the reservation registering means adopts the reservation in the time zone corresponding to the reservation time information included in the reservation choice information transmitted by the communication terminal, among the reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table, and cancels the other reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table.

Claim 3 (Previously Presented): The download system according to Claim 1, wherein, in generating the reservation candidate information, the reservation candidate generating means of the server generates the reservation candidate information preferentially including the time information about the plurality of time zones with a large number of said reservation frames to which the reservation for the download is not allocated, based on the reservation table.

Claim 4 (Previously Presented): The download system according to Claim 1, wherein the communication terminal further comprises available range acquiring means for transmitting to the server a transmission request for transmission of available range information containing information about presence/absence of a time zone available for the reservation for the download in each of second predetermined periods obtained by subdividing a first predetermined period, and for receiving the available range information transmitted from the server,

wherein the server further comprises available range generating means for generating the available range information in accordance with the transmission request for transmission

of the available range information transmitted by the communication terminal, and for transmitting the available range information to the communication terminal,

wherein the reservation candidate acquiring means transmits to the server the transmission request for transmission of the reservation candidate information containing the information about the second predetermined period selected based on the available range information received by the available range acquiring means, and

wherein the reservation candidate generating means generates the reservation candidate information containing the time information about the plurality of time zones available for the reservation for the download in the second predetermined period, based on the information about the second predetermined period included in the transmission request for transmission of the reservation candidate information transmitted by the communication terminal, and transmits the reservation candidate information to the communication terminal.

Claim 5 (Currently Amended): The download system according to Claim 4, wherein the available range information generated by the available range generating means contains level information indicating a number of said reservation frames ~~frames~~ to which the reservation for the download is not allocated, in each of the second predetermined periods.

Claim 6 (Previously Presented): The download system according to Claim 4, wherein the available range information generated by the available range generating means is comprised of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.

Claim 7 (Previously Presented): The download system according to Claim 4, wherein the available range information generated by the available range generating means is comprised of a list resulting from further text conversion of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.

Claim 8 (Currently Amended): A communication terminal adapted for downloading data from a server to manage the data, comprising:

reservation candidate acquiring means for transmitting to the server a transmission request for transmission of reservation candidate information containing time information indicating at least a start time corresponding to each of a plurality of candidate time zones, all of which are available for allocation of ~~to which~~ a reservation for download of the data ~~can be allocated~~, and for acquiring the reservation candidate information transmitted in response to the request by the server;

reservation selecting means for transmitting, to the server, reservation choice information containing, as reservation time information, the time information selected based on the reservation candidate information acquired by the reservation candidate acquiring means, and for storing a start time corresponding with a selected one of the plurality of time zones, indicated by the reservation time information, as an initiation time of the download;

data request transmitting means for transmitting a transmission request for transmission of the data to the server, at the initiation time stored by the reservation selecting means; and

data receiving means for receiving the data transmitted by the server in accordance with the transmission request for transmission of the data transmitted by the data request transmitting means.

Claim 9 (Original): The communication terminal according to Claim 8, further comprising available range acquiring means for transmitting to the server a transmission request for transmission of available range information containing information about presence/absence of a time zone available for the reservation for the download in each of second predetermined periods obtained by subdividing a first predetermined period, and for receiving the available range information transmitted from the server,

wherein the reservation candidate acquiring means transmits to the server the transmissions request for transmission of the reservation candidate information containing the information about the second predetermined period selected based on the available range information received by the available range acquiring means.

Claim 10 (Currently Amended): A server adapted for managing data to be downloaded by a communication terminal, comprising:

data storing means for storing the data;

reservation information storing means for storing a reservation table in which the reservation for the download is to be allocated to reservation flames within a maximum number at each time to permit simultaneous execution of the download, set based on a load state at each time preliminarily measured;

reservation candidate generating means for, in response to the transmission request for the transmission of the reservation candidate information transmitted by the communication terminal, determining time zones as candidates, all of which are available for the download of the data, based on the reservation table stored in the reservation information storing means, for generating the reservation candidate information containing time information about each of the time zones, indicating at least a start time thereof, and for transmitting the reservation candidate information to the communication terminal;

reservation registering means for receiving the reservation choice information containing as reservation time information the time information selected based on the reservation candidate information, transmitted by the communication terminal, and for registering in the reservation table the reservation for the download at one of the time zones, indicated by the reservation time information included in the reservation choice information; and

data transmitting means for transmitting to the communication terminal the data stored in the data storing means, in response to the transmission request for transmission of the data transmitted at the start time of the reservation time information by the communication terminal.

Claim 11 (Currently Amended): The server according to Claim 10, wherein, in generating the reservation candidate information, the reservation candidate generating ~~selecting~~ means temporarily allocates in the reservation table, reservations for the download corresponding to the time information included in the reservation candidate information, together with information to identify the communication terminal having transmitted the transmission request for transmission of the reservation candidate information, and

wherein the reservation registering means adopts the reservation in the time zone corresponding to the reservation time information included in the reservation choice information transmitted by the communication terminal, among the reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table, and cancels the other reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table.

Claim 12 (Previously Presented): The server- according to Claim 10, wherein, in generating the reservation candidate information, the reservation candidate generating means generates the reservation candidate information preferentially contain the time information about the plurality of time zones with a large number of said reservation frames to which the reservation for the download is not allocated, based on the reservation table.

Claim 13 (Previously Presented): The server according to Claim 10, further comprising available range generating means for receiving a transmission request for transmission of available range information transmitted by the communication terminal, for, in response to the transmission request for transmission of the available range information, generating the available range information containing information about presence/absence of a time zone available for the reservation for the download in each of second predetermined periods obtained by subdividing a first predetermined period, and for transmitting the available range information to the communication terminal,

wherein the reservation candidate generating means receives the reservation candidate information containing information about the second predetermined period selected based on the available range information, transmitted by the communication terminal, generates the reservation candidate information containing the time information about the plurality of time zones available for the reservation for the download in the second predetermined period, based on the information about the second predetermined period included in the transmission request for transmission of the reservation candidate information, and transmits the reservation candidate information to the communication terminal.

Claim 14 (Original): The server according to Claim 13, wherein the available range information generated by the available range generating means contains level information



indicating a number of said reservation frames to which the reservation for the download is not allocated, in each of the second predetermined periods.

Claim 15 (Previously Presented): The server according to Claim 13, wherein the available range information generated by the available range generating means is comprised of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.

Claim 16 (Previously Presented): The server according to Claim 13, wherein the available range information generated by the available range generating means is comprised of a list resulting from further text conversion of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.

Claim 17 (Currently Amended): A download method in which a communication terminal downloads data from a server to manage the data, the download method comprising:

requesting a reservation candidate, reservation candidate acquiring means of the communication terminal transmitting to the server a transmission request for transmission of reservation candidate information containing time information indicating at least a start time corresponding to each of a plurality of candidate time zones, each of which is available for allocation of to which a reservation for download of the data ~~can be allocated~~;

generating a reservation candidate in response to the request for transmission of the reservation candidate information transmitted by the communication terminal, reservation candidate generating means of the server determining the plurality of time zones as candidates available for the download of the data, based on a reservation table in which the

reservation for the download is to be allocated to reservation frames within a maximum number at each time to permit simultaneous execution of the download, set based on a load state at each time preliminarily measured, and which is stored in reservation information storing means, generating the reservation candidate information containing the time information about the plurality of time zones, and transmitting the reservation candidate information to the communication terminal;

acquiring a reservation candidate, reservation candidate acquiring means of the communication terminal acquiring the reservation candidate information transmitted by the server,

selecting a reservation, reservation selecting means of the communication terminal transmitting to the server reservation choice information containing as reservation time information the time information selected based on the reservation candidate information acquired by the reservation candidate acquiring means, and storing a start time corresponding with a selected one of the plurality of time zones indicated by the reservation time information, as an initiation time of the download;

registering a reservation, registering means of the server receiving the reservation choice information transmitted by the communication terminal, and registering in the reservation table the reservation for the download in the selected one of the plurality of time zones corresponding to the reservation time information included in the reservation choice information;

transmitting a data request, data request transmitting means of the communication terminal transmitting a transmission request for transmission of the data to the server, at the initiation time stored by the reservation selecting means;

transmitting data, data transmitting means of the server transmitting to the communication terminal the data stored in the data storing means, in response to the

transmission request for transmission of the data transmitted by the communication terminal;  
and

receiving data, data receiving means of the communication terminal receiving the data transmitted by the server in accordance with the transmission request for transmission of the data.

Claim 18 (Currently Amended): The download method according to Claim 17, wherein ~~the reservation candidate selecting means of the server, in~~ generating the reservation candidate information[[,]] includes temporarily allocating ~~allocates~~ in the reservation table, reservations for the download corresponding to the time information included in the reservation candidate information, together with information to identify the communication terminal having transmitted the transmission request for transmission of the reservation candidate information, and

wherein the reservation registering means of the server adopts the reservation in the selected one of the plurality of time zones corresponding to the reservation time information included in the reservation choice information transmitted by the communication terminal, among the reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table, and cancels the other reservations temporarily allocated together with the information to identify the communication terminal, in the reservation table.

Claim 19 (Previously Presented): The download method according to Claim 17, wherein the reservation candidate generating means of the server, in generating the reservation candidate information, generates the reservation candidate information preferentially including the time information about the plurality of time zones with a large

number of said reservation frames to which the reservation for the download is not allocated, based on the reservation table.

Claim 20 (Previously Presented): The download method according to Claim 17, further comprising:

transmitting an available range request, available range acquiring means of the communication terminal transmitting to the server a transmission request for transmission of available range information containing information about presence/absence of a time zone available for the reservation for the download in each of second predetermined periods obtained by subdividing a first predetermined period;

generating an available range, available range generating means of the server generating the available range information in accordance with the transmission request for transmission of the available range information transmitted by the communication terminal, and transmitting the available range information to the communication terminal; and

acquiring an available range, the available range acquiring means of the communication terminal receiving the available range information transmitted from the server,

wherein the reservation candidate acquiring means of the communication terminal transmits to the server the transmission request for transmission of the reservation candidate information containing the information about the second predetermined period selected based on the available range information received by the available range acquiring means, and

wherein the reservation candidate generating means of the server generates the reservation candidate information containing the time information about the plurality of time zones available for the reservation for the download in the second predetermined period, based on the information about the second predetermined period included in the transmission

request for transmission of the reservation candidate information transmitted by the communication terminal, and transmits the reservation candidate information to the communication terminal.

Claim 21 (Previously Presented): The download method according to Claim 20, wherein the available range information generated by the available range generating means of the server contains level information indicating a number of said reservation frames to which the reservation for the download is not allocated, in each of the second predetermined periods.

Claim 22 (Previously Presented): The download method according to Claim 20, wherein the available range information generated by the available range generating means of the server is comprised of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.

Claim 23 (Previously Presented): The download method according to Claim 20, wherein the available range information generated by the available range generating means of the server is comprised of a list resulting from further text conversion of a list indicating binary values of the information about the presence/absence of a time zone available for the reservation for the download in each of the second predetermined periods.